

REMEDIAL SITE ASSESSMENT DECISION - EPA REGION IV

Page 1 of 1

EPA ID: TND980844229 Site Name: HOOKER ROAD BRIDGE DUMP

State ID:

Alias Site Names: HOOKER ROAD BRIDGE DUMP

City: CHATTANOOGA

County or Parish: HAMILTON

State: TN

Refer to Report Dated: 03/28/2006

Report Type: SITE REASSESSMENT 001

Report Developed by: STATE

DECISION:

☒ 1. Further Remedial Site Assessment under CERCLA (Superfund) is not required because:

☒ 1a. Site does not qualify for further remedial site assessment under CERCLA (No Further Remedial Action Planned - NFRAP)

☐ 1b. Site may qualify for action, but is deferred to:

☐ 2. Further Assessment Needed Under CERCLA:

2a. Priority: ☐ Higher ☐ Lower

2b. Other: (recommended action) NFRAP (No Further Remedial Action Planned)

DISCUSSION/RATIONALE:

The Site was an illegal chemical dump in the 1970s that received fire-damaged material from Dy-Therm Chemical. In a 1978 visit, construction, industrial and household garbage was observed on Site. Today, part of the property has an active auto salvage yard operating.

There are homes and schools to the south and northwest, within 2000 feet of the Site.

There has been no known sampling of groundwater at the Site. Residences and businesses within a 4-mile radius of the Site receive their drinking water from a public utility source. There are no known drinking water wells within a 4-mile radius of the Site. Therefore, the groundwater pathway at the Site does not receive a high HRS score.

There is no surface water intake within the 15-mile segment.

The nearest house is 50 feet away from the property line of the Site. It is possible for trespassers to enter the Site from the southern or western side. Not enough targets or concentrations to score this pathway.

Based on the site score of 5.15, the Site should be NFRAPd. However, there is known contamination at the Site. Future use scenarios for Chattanooga Creek include having a Greenway built along the Creek. If this were to happen, it is possible that children and/or trespassers could find their way onto the Site more frequently.

SITE: Hooker Road
BREAK: 1.8
OTHER: VI

Site Decision Made by: BETH WALDEN

Signature: Beth Walden (printed 9/12/06)



10511815

Date: 07/12/2006



STATE OF TENNESSEE
DEPARTMENT OF ENVIRONMENT AND CONSERVATION

Division of Remediation
4th Floor, L & C Annex
401 Church Street
Nashville, Tennessee 37243-1538

SITE: Hooker Rd
BREAK: 1.8
OTHER: VI

March 29, 2006

Beth Walden
Site Assessment Project Officer
U.S. Environmental Protection Agency
Region 4
61 Forsyth Street S.W.
Atlanta, GA 30303-8909

Dear Beth:

Enclosed is the Reassessment Report for the Hooker Road Bridge Dump site in Chattanooga, TN. DOR staff is not recommending further CERCLIS investigation at this site. Future action could possibly include removal dependent upon surrounding land use.

If you need additional information or have any questions, please contact me at (615) 532-0925.

Sincerely,

A handwritten signature in cursive script that reads "Suzanne Wilkes".

Suzanne Wilkes
Division of Remediation

Recommend NFRAP
Cliff Walden
7/12/06

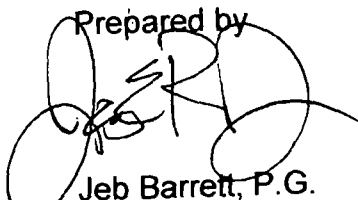
CERCLA SITE REASSESSMENT
HOOKER ROAD BRIDGE DUMP
CHATTANOOGA, HAMILTON COUNTY, TENNESSEE
TND 980844229

SITE: Hooker Road
BREAK: 1.8
OTHER: VI


March 28, 2006

TENNESSEE DIVISION OF REMEDIATION
CHATTANOOGA ENVIRONMENTAL FIELD OFFICE

Prepared by


Jeb Barrett, P.G.
Geologist 3

Reviewed by


Penny Johnston, P.E.
EPS 4

Approved by



Beth Walden, RPM
EPA Region IV

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1.0 Introduction

EPA has tasked the Tennessee Department of Environment and Conservation Division of Remediation to reassess several CERCLA sites using the new HRS Quickscore Program. These are sites that previously did not score high enough to be on the National Priorities List when scored with the Prescreen Program. The Hooker Road Bridge Dump is one of these sites.

2.0 Site History

2.1 Site History

In 1978 a local citizen claimed there was an illegal chemical dump on the site and called the Tennessee Division of Water Pollution Control (WPC). WPC observed that they had been to the site in 1976 after the City of Chattanooga informed them that a hauler had dumped fire-damaged material from Dy-Therm Chemical on the site, after a fire destroyed their warehouse. It was reported that the hauler emptied the drums of "aromatic waste" and then took the drums and sold them for scrap. Several large bales of synthetic carpet fiber waste, 3-55 gallon drums, various construction and industrial waste, and some household garbage were observed at the time. During the 1978 visit, it was observed that the site had been set on fire and most of the waste that was on site burned leaving a charcoal like residue on the ground (Reference 1).

The current owner of the site is Ora Powell (Reference 2). Ms. Powell is the daughter of Willie Powell, the owner of the property during the time of dumping. In interviews with Mr. Powell, he stated that he was not aware of any chemicals that were dumped on the site.

TDEC Division of Superfund Staff performed a Site Investigation (SI) in 1988. During the investigation Dieldrin, Polynuclear Aromatic Hydrocarbons (PAHs), and Nickel were found at the site at levels above Region IX Industrial PRGs. At the time, only a small number of samples were collected to attempt to characterize some of the waste at the site. The SI analytical results are presented in Section 3. Because of a lack of targets at the site, the site score was only 5.7. However, the direct contact scored a 50.0 (Reference 1, pg. 9).

The site is being reconsidered with more appropriate future use scenarios and reevaluated from a removal standpoint. Contamination is likely to still be present at the site and additional characterization is needed.

In 1988 and today, the northern quarter of the site is being operated as D&D Salvage, an auto salvage yard. This salvage yard is on top of approximately 10' of fill. The fill is reported to contain foundry sands and has not been sampled (Reference 1). The salvage yard is typical in that it has the standard associated untidiness, stains and sheens on the ground, etc., that normally is found in such settings. The current operator of the salvage yard is Dennis Goins (Reference 2).

2.2 Site Setting

The geographic coordinates for the site are 34° 59' 24" N Latitude and 85° 18' 00" W Longitude (Figure 1). The site is between Hooker Road on the north and Stateline Road on the south and bordered on the west by Chattanooga Creek and its tributary, Dye Branch. To the east of the site is another auto salvage yard. The auto salvage yard on the site is approximately one quarter of the 22 total acres in size. The dump area with the drums and carpet bales is the southern three quarters of the site (Figure 2).

There are homes and schools to the south and the northwest, within 2000 feet of the site. In the other directions, the area is either commercial or undeveloped. The site can be divided into two distinct sections, the north quarter is an open lot used as an auto salvage yard on top of 10' of fill, and the south three quarters is a large wooded tract that lies within the floodplain of Chattanooga Creek and Dye Branch. The waste piles and drums are in the southern wooded portion. The eastern portion of the site is divided from the other salvage yard by a fence in disrepair. All along this fence, on both sides, are piles of auto parts and random debris (Reference 1). There is also a fence along Hooker road, but there is no restriction to access along the western or southern portions of the property (Figure 2).

The site lies within the Valley and Ridge Province of East Tennessee. The site lies in a valley of low relief between two prominent ridges known as Hawkins Ridge to the west and Missionary Ridge to the east. Relief in the site vicinity is approximately 20 feet or less as the floodplain is very flat lying along this section of Chattanooga Creek (Figure 1).

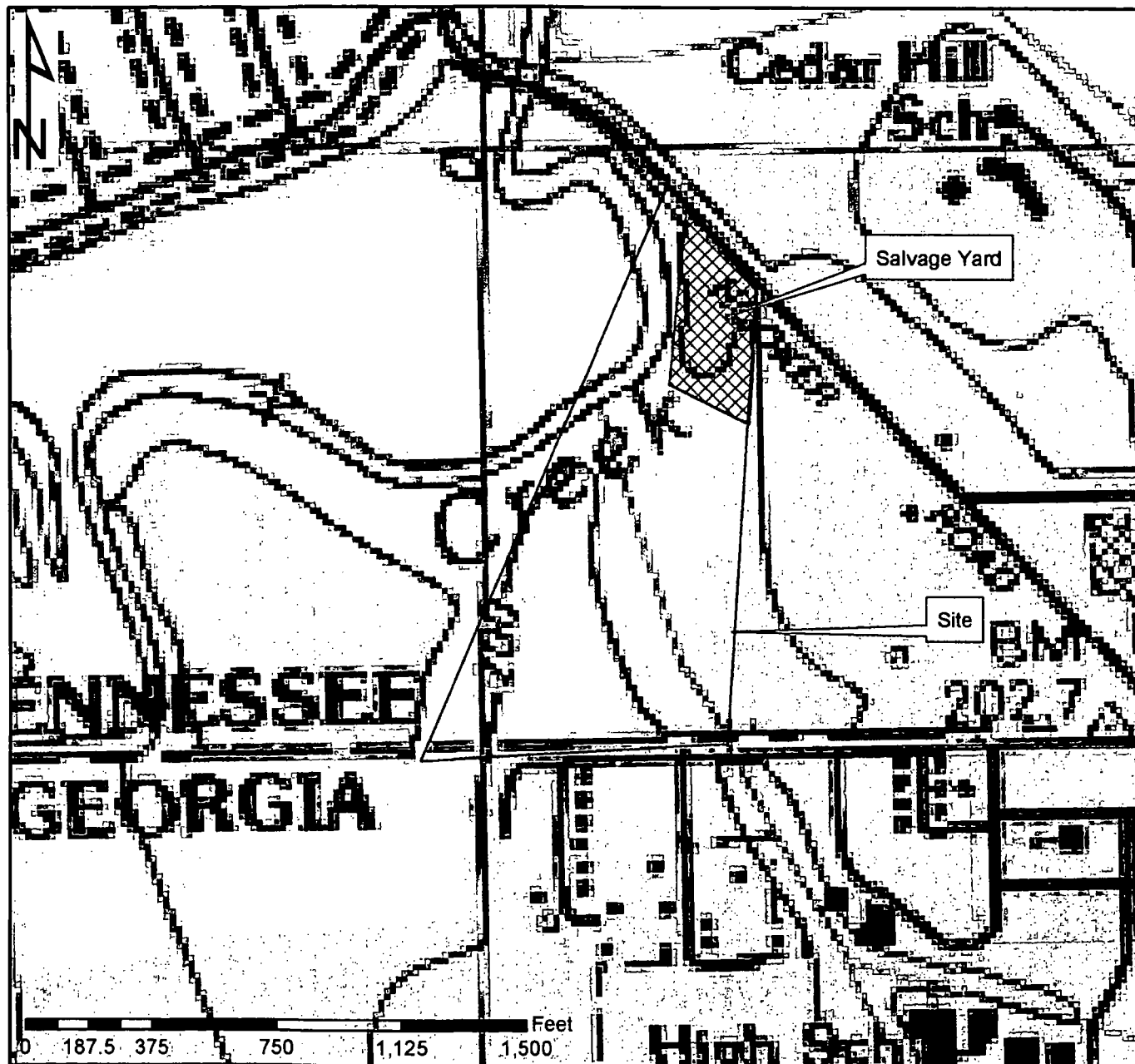
From Reference 1:

The site is underlain by a group of rocks known as the Ordovician-Cambrian Knox Group, Undifferentiated. This group is characterized by coarse-grained, thin to thick bedded, and weathers to cherty rubble.

The Thickness is considered to be approximately 2600 feet thick. The Knox in the immediate vicinity of the site is mapped as a long narrow outcrop striking in a north-south direction that is controlled by thrust faults. Since relief is low, formation boundaries are not as distinguishable and hence the area is mapped as a group.

A major thrust fault known as the Chattanooga Fault lies approximately 1200 feet to the west of the site. This fault trends in a north-south direction and semi parallel to other major thrust faults in East Tennessee. To the east the next major fault is the Missionary Ridge Fault, which lies approximately 1.5 miles away. However, the area is complex and it is possible that less prominent thrusts are between this region the control of which is not well understood at present.

Figure 1



Location Map

Source:
USGS Topographical Quadrangles
105-SE
106-NE

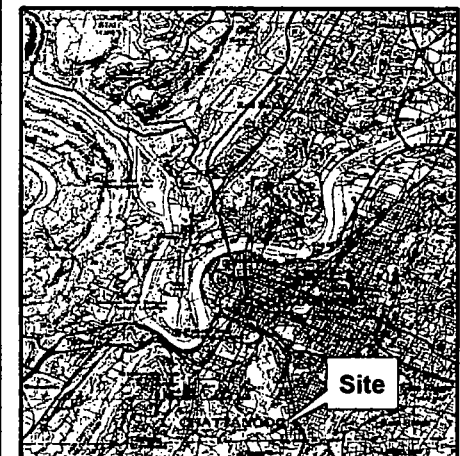
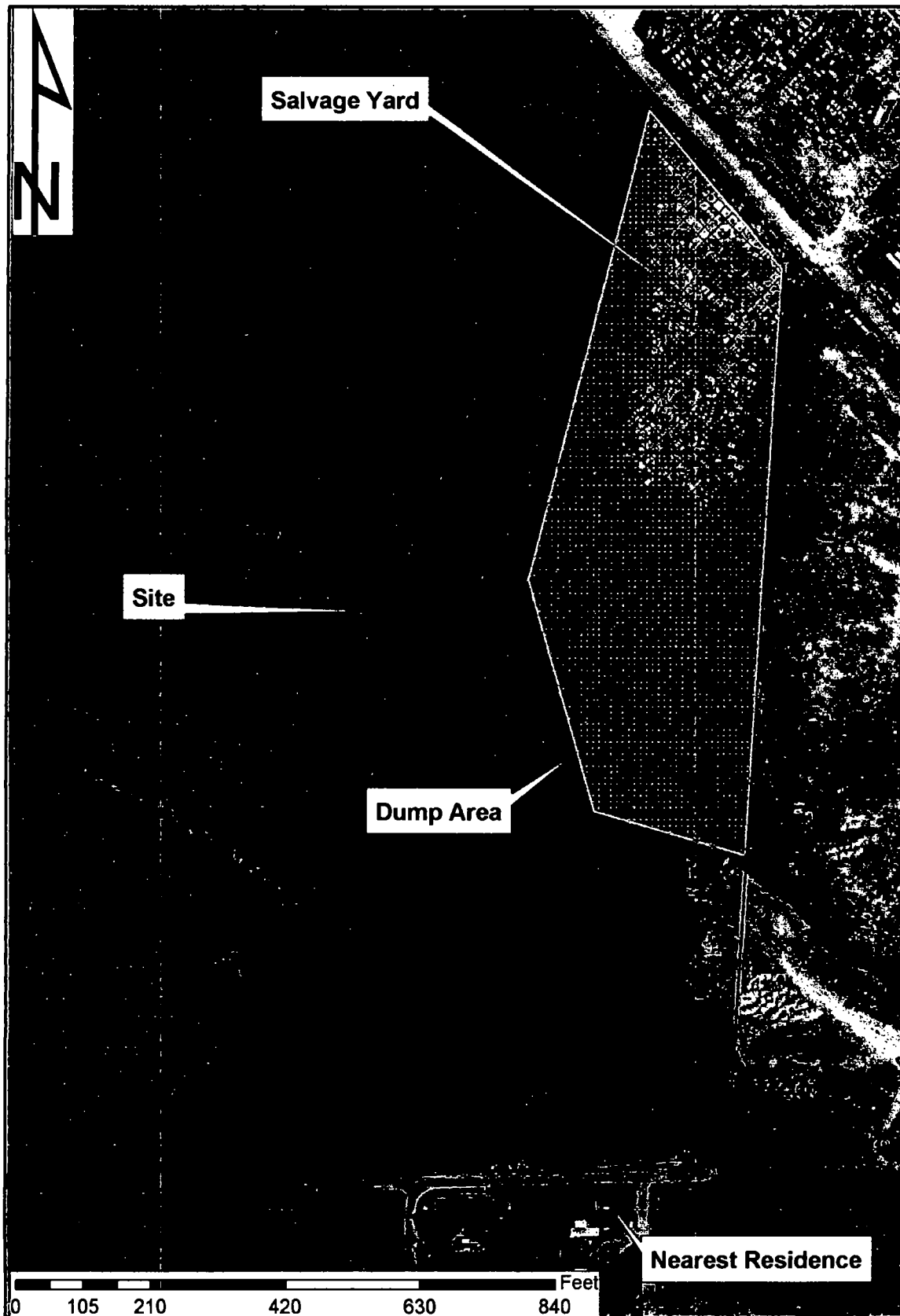


Figure 2



Site Map

Source:
USGS 2002 Aerial Photos

The prominent unconsolidated material underlying the site is alluvium. It is not known to be an important source of groundwater probably due to its thin nature. However, groundwater in units of the Knox Group can be quite substantial with yields of 100 gpm or more. The availability of groundwater in these limestones and dolomites is primarily dependent on the distribution of fractures and the amount of solutionally enlarged zones. Predicting the yield of a well is difficult because the distribution of such conduits is very often erratic. This is possibly due to the siliceous nature of some of the Knox units. In the vicinity of the site it is believed that water is transmitted very readily in the Knox because just to the north there is an area of obvious sinkholes.

3.0 Analytical Results

Below are the results from sampling conducted by TDEC in February 1988.

Analyte	Sample Numbers											
	1	2	3	4	5	6	7	8	9	10	11	12
Barium	96.2			107			19.1			79.4		
Cadmium	1.4			1.5			2.3			1.3		
Chromium	65			80			9			34		
Copper	46			78			23			37		
Lead	163			101			15			76		
Mercury	0.198			0.104			ND			0.130		
Nickel	25			1167			137,200			1118		
Selenium	1.0			ND			1.6			0.2		
Silver	0.9			0.7			0.4			0.6		
Zinc	215			177			43.4			102		
4,4-DDE			8.44			3.6			ND			5.23
Dieldrin			424			32.4			ND			13.6
Anthracene			379			ND			ND			ND
Benzo(a)Pyrene			384			ND			ND			ND
Benzo(ghi)perylene			851			ND			ND			ND
Fluoranthene			1100			ND			ND			ND
Phenanthrene			376			ND			ND			ND
Chrysene			43			ND			ND			ND
Trichloroethylene		ND			0.0699			0.0982			0.115	
Detection units	mg/kg	µg/kg	µg/kg	mg/kg	µg/kg	µg/kg	mg/kg	µg/kg	µg/kg	mg/kg	µg/kg	µg/kg

Sample Descriptions	
Sample 1,2,3	Soil Background
Sample 4,5,6	Soil composite around drums
Sample 7,8,9	Waste from drum
Sample 10,11,12	Soil composite near burned carpet bales

4.0 Discussion of Pathways

4.1 Groundwater Pathway

There has been no known sampling of the groundwater at the site. Residences and businesses within a 4-mile radius of the site receive their drinking water from a public utility source (Reference 3). There are no known drinking water wells within the 4-mile radius of the site (Reference 4). Therefore, the groundwater pathway at the site does not receive a higher HRS score.

It is possible that the groundwater under the site does have some level of contamination. Historical interviews suggest that dumping of a liquid with a "moth ball" odor occurred at the site (Reference 1). Sampling in 1988 showed levels of Dieldrin at the site to be 0.424 mg/kg (Reference 1), which is above the Region IX PRG Karst Dilution Attenuation Factor of 0.0002 mg/kg. The amount and extent of any potential contamination in the groundwater is not known due to a lack of analytical data.

4.2 Surface Water Pathway

The contamination lies within the floodplain of Chattanooga Creek. Adequate sediment sampling has not occurred at the site to determine if contamination of Dry Branch and Chattanooga Creek has occurred. EPA Superfund lists Chattanooga Creek as a site on the National Priorities List. As part of the investigation of Chattanooga Creek, several sediment samples have been taken downstream of the site. These samples were non-detect for Dieldrin, but did have numerous detections of PAHs. However, the PAHs detected have been associated with contamination from sites linked with the Chattanooga Creek Superfund Site (Reference 3, pgs. 6-25). The reach of Chattanooga Creek nearest to the site was cleaned up as part of an EPA Emergency Action in 1999-2000, but the floodplain in the vicinity of the site has not had any remediation completed on it.

There is a large pond to the west of the property and 600 feet from the dumping area (Figure 2). It is likely that locals use this pond for fishing. There has been no known sampling of this pond.

There is no surface water intake located within the 15-mile downstream segment (Figure 3).

The average flow of the Tennessee River is 36,650 cfs, and the average flow of the Chattanooga Creek is 125 cfs. The Tennessee River is used as an industrial and drinking water supply. It is used for fishing, recreation, and irrigation, and it is a water source for livestock and wildlife (Reference 1). Chattanooga Creek has been heavily polluted by local industrial activity and is currently on CERCLIS. Chattanooga creek is a posted creek and a NPL site. There are approximately 16,000 feet of National Wetlands Inventory wetlands along the Chattanooga Creek down gradient from the Site.

4.3 Soil Exposure and Air Pathways

There are no residents on the site. The nearest house is 50 feet away from the property line to the south of the site. The site is heavily wooded and has a fence on the north and east sides. It is possible for trespassers to enter the site from the southern or western side. Aerial photos show that there is a road on the southern portion of the property leading to a pond that borders the property to the west. This road can allow easy access to the site. It is likely that people are using

Figure 3



**Surface Water
Pathway**

Source:
USGS Topographical Quadrangles:
105-SE
106-NE

this road to get to the pond and fish. The auto salvage yard on site employs an average of 5 persons.

The population for the City of Chattanooga is 155,554, according to the 2000 census data (Reference 5). Population projections for the surrounding community performed by the Chattanooga-Hamilton County Regional Planning Commission was 7,676, for the year 2000 (Reference 1).

Because of the nature of the contamination and the location, the Air Pathway has not been evaluated.

5.0 Site Score

Ground Water Migration Pathway Score	0.05
Surface Water Migration Pathway Score	7.27
Soil Exposure Pathway Score	7.30
Air Migration Pathway Score	0.00
Site Score	5.15

6.0 Summary and Conclusions

Based on the score, the Tennessee Department of Environment and Conservation, Division of Remediation recommends this site be removed from EPA's CERCLA list. However, there is known contamination at this site. The total amount of contamination is not known. Future use scenarios for Chattanooga Creek include having a Greenway built along the creek. If this were to happen, it is possible that children and/or trespassers could find their way onto the site more frequently. Therefore, the site should be looked at from a removal standpoint.

APPENDIX A

Quickscore Sheets

****** CONFIDENTIAL ******
******PRE-DECISIONAL DOCUMENT ******
****** SUMMARY SCORESHEET ******
****** FOR COMPUTING PROJECTED HRS SCORE ******

****** Do Not Cite or Quote ******

Site Name: Hooker Road Bridge Dump

Region: IV

Chattanooga, Hamiton, TN

Evaluator: Jeb Barrett

EPA ID#: TND 980844229

Date: March 8, 2006

Lat/Long: 34° 59' 24" N, 85° 18' 00" W

T/R/S:

Congressional District:

This Scoresheet is for: Reassessment of the Site

Scenario Name:

Description:

	S pathway	S ² pathway
Ground Water Migration Pathway Score (S _{gw})	0.05	0.0025
Surface Water Migration Pathway Score (S _{sw})	7.27	52.8529
Soil Exposure Pathway Score (S _s)	7.3	53.29
Air Migration Score (S _a)	0	0
$S_{gw}^2 + S_{sw}^2 + S_s^2 + S_a^2$		106.1454
$(S_{gw}^2 + S_{sw}^2 + S_s^2 + S_a^2)/4$		26.53635
$/(S_{gw}^2 + S_{sw}^2 + S_s^2 + S_a^2)/4$		5.15

o Pathways not assigned a score (explain):

TABLE 3-1 --GROUND WATER MIGRATION PATHWAY SCORESHEET

Factor categories and factors	Maximum Value	Value Assigned
Aquifer Evaluated:		
Likelihood of Release to an Aquifer:		
1. Observed Release	550	0
2. Potential to Release:		
2a. Containment	10	10
2b. Net Precipitation	10	6
2c. Depth to Aquifer	5	3
2d. Travel Time	35	35
2e. Potential to Release [lines 2a(2b + 2c + 2d)]	500	440
3. Likelihood of Release (higher of lines 1 and 2e)	550	440
Waste Characteristics:		
4. Toxicity/Mobility	(a)	20
5. Hazardous Waste Quantity	(a)	1
6. Waste Characteristics	100	2
Targets:		
7. Nearest Well	(b)	0
8. Population:		
8a. Level I Concentrations	(b)	0
8b. Level II Concentrations	(b)	0
8c. Potential Contamination	(b)	0
8d. Population (lines 8a + 8b + 8c)	(b)	0
9. Resources	5	5
10. Wellhead Protection Area	20	0
11. Targets (lines 7 + 8d + 9 + 10)	(b)	5
Ground Water Migration Score for an Aquifer:		
12. Aquifer Score [(lines 3 x 6 x 11)/82,5000] ^c	100	0.0533333333333333
Ground Water Migration Pathway Score:		
13. Pathway Score (S_{gw}), (highest value from line 12 for all aquifers evaluated) ^c	100	0.0533333333333333

^a Maximum value applies to waste characteristics category^b Maximum value not applicable^c Do not round to nearest integer

TABLE 4-1 —SURFACE WATER OVERLAND/FLOOD MIGRATION COMPONENT SCORESHEET

Factor categories and factors	Maximum Value	Value Assigned
Watershed Evaluated:		
Drinking Water Threat		
Likelihood of Release:		
1. Observed Release	550	0
2. Potential to Release by Overland Flow:		
2a. Containment	10	10
2b. Runoff	10	1
2c. Distance to Surface Water	5	25
2d. Potential to Release by Overland Flow [(lines 2a(2b + 2c))]	35	260
3. Potential to Release by Flood:		
3a. Containment (Flood)	10	10
3b. Flood Frequency	50	50
3c. Potential to Release by Flood (lines 3a x 3b)	500	500
4. Potential to Release (lines 2d + 3c, subject to a maximum of 500)	500	500
5. Likelihood of Release (higher of lines 1 and 4)	550	0
Waste Characteristics:		
6. Toxicity/Persistence	(a)	10000
7. Hazardous Waste Quantity	(a)	1
8. Waste Characteristics	100	10
Targets:		
9. Nearest Intake	50	0
10. Population:		
10a. Level I Concentrations	(b)	
10b. Level II Concentrations	(b)	
10c. Potential Contamination	(b)	0
10d. Population (lines 10a + 10b + 10c)	(b)	0
11. Resources	5	5
12. Targets (lines 9 + 10d + 11)	(b)	5
Drinking Water Threat Score:		
13. Drinking Water Threat Score [(lines 5x8x12)/82,500, subject to a max of 100]	100	0.3
Human Food Chain Threat		
Likelihood of Release:		
14. Likelihood of Release (same value as line 5)	550	500
Waste Characteristics:		
15. Toxicity/Persistence/Bioaccumulation	(a)	500000000
16. Hazardous Waste Quantity	(a)	1
17. Waste Characteristics	1000	100
Targets:		
18. Food Chain Individual	50	10
19. Population		
19a. Level I Concentration	(b)	
19b. Level II Concentration	(b)	
19c. Potential Human Food Chain Contamination	(b)	3E-6
19d. Population (lines 19a + 19b + 19c)	(b)	0
20. Targets (lines 18 + 19d)	(b)	10
Human Food Chain Threat Score:		
21. Human Food Chain Threat Score [(lines 14x17x20)/82500, subject to max of 100]	100	6.06
Environmental Threat		
Likelihood of Release:		
22. Likelihood of Release (same value as line 5)	550	500
Waste Characteristics:		
23. Ecosystem Toxicity/Persistence/Bioaccumulation	(a)	500000000
24. Hazardous Waste Quantity	(a)	1
25. Waste Characteristics	1000	100

Targets:

26. Sensitive Environments		
26a. Level I Concentrations	(b)	
26b. Level II Concentrations	(b)	
26c. Potential Contamination	(b)	1.5
26d. Sensitive Environments (lines 26a + 26b + 26c)	(b)	1.5
27. Targets (value from line 26d)	(b)	1.5
Environmental Threat Score:		
28. Environmental Threat Score [(lines 22x25x27)/82,500 subject to a max of 60]	60	0.91
Surface Water Overland/Flood Migration Component Score for a Watershed		
29. Watershed Score ^c (lines 13+21+28, subject to a max of 100)	100	7.27
Surface Water Overland/Flood Migration Component Score		
30. Component Score (S_{sw}) ^c (highest score from line 29 for all watersheds evaluated)	100	7.27

^a Maximum value applies to waste characteristics category

^b Maximum value not applicable

^c Do not round to nearest integer

TABLE 4-25 —GROUND WATER TO SURFACE WATER MIGRATION COMPONENT SCORESHEET

Factor categories and factors	Maximum Value	Value Assigned
Aquifer Evaluated:		
Drinking Water Threat		
Likelihood of Release to an Aquifer:		
1. Observed Release	550	0
2. Potential to Release:		
2a. Containment	10	10
2b. Net Precipitation	10	6
2c. Depth to Aquifer	5	3
2d. Travel Time	35	35
2e. Potential to Release [(lines 2a(2b + 2c + 2d))]	500	440
3. Likelihood of Release (higher of lines 1 and 2e)	550	440
Waste Characteristics:		
4. Toxicity/Mobility	(a)	20
5. Hazardous Waste Quantity	(a)	1
6. Waste Characteristics	100	2
Targets:		
7. Nearest Well	(b)	0
8. Population:		
8a. Level I Concentrations	(b)	
8b. Level II Concentrations	(b)	
8c. Potential Contamination	(b)	0
8d. Population (lines 8a + 8b + 8c)	(b)	0
9. Resources	5	5
10. Targets (lines 7 + 8d + 9)	(b)	5
Drinking Water Threat Score:		
11. Drinking Water Threat Score [(lines 3 x 6 x 10)/82,500, subject to max of 100]	100	0.053333333 3333333
Human Food Chain Threat		
Likelihood of Release:		
12. Likelihood of Release (same value as line 3)	550	440
Waste Characteristics:		
13. Toxicity/Mobility/Persistence/Bioaccumulation	(a)	1000000
14. Hazardous Waste Quantity	(a)	1
15. Waste Characteristics	1000	32
Targets:		
16. Food Chain Individual	50	
17. Population		
17a. Level I Concentration	(b)	
17b. Level II Concentration	(b)	
17c. Potential Human Food Chain Contamination	(b)	3E-6
17d. Population (lines 17a + 17b + 17c)	(b)	0
18. Targets (lines 16 + 17d)	(b)	10
Human Food Chain Threat Score:		
19. Human Food Chain Threat Score [(lines 12x15x18)/82,500,subject to max of 100]	100	1.706666666 66667
Environmental Threat		
Likelihood of Release:		
20. Likelihood of Release (same value as line 3)	550	440
Waste Characteristics:		
21. Ecosystem Toxicity/Persistence/Bioaccumulation	(a)	1000000
22. Hazardous Waste Quantity	(a)	1
23. Waste Characteristics	1000	32
Targets:		
24. Sensitive Environments		
24a. Level I Concentrations	(b)	

24b. Level II Concentrations	(b)		
24c. Potential Contamination	(b)	1.5	
24d. Sensitive Environments (lines 24a + 24b + 24c)	(b)	1.5	
25. Targets (value from line 24d)	(b)		1.5
Environmental Threat Score:			
26. Environmental Threat Score [(lines 20x23x25)/82,500 subject to a max of 60]	60		0.26
Ground Water to Surface Water Migration Component Score for a Watershed			
27. Watershed Score ^c (lines 11 + 19 + 28, subject to a max of 100)	100		2.02
28. Component Score (S _{gs}) ^c (highest score from line 27 for all watersheds evaluated, subject to a max of 100)	100		2.02

^a Maximum value applies to waste characteristics category

^b Maximum value not applicable

^c Do not round to nearest integer

TABLE 5-1 --SOIL EXPOSURE PATHWAY SCORESHEET

Factor categories and factors	Maximum Value	Value Assigned
Likelihood of Exposure:		
1. Likelihood of Exposure	550	550
Waste Characteristics:		
2. Toxicity	(a)	10000
3. Hazardous Waste Quantity	(a)	1
4. Waste Characteristics	100	10
Targets:		
5. Resident Individual	50	0
6. Resident Population:		
6a. Level I Concentrations	(b)	0
6b. Level II Concentrations	(b)	0
6c. Population (lines 6a + 6b)	(b)	0
7. Workers	15	5
8. Resources	5	5
9. Terrestrial Sensitive Environments	(c)	25
10. Targets (lines 5 + 6c + 7 + 8 + 9)	(b)	35
Resident Population Threat Score		
11. Resident Population Threat Score (lines 1 x 4 x 10)	(b)	192500
Nearby Population Threat		
Likelihood of Exposure:		
12. Attractiveness/Accessibility	100	50
13. Area of Contamination	100	5
14. Likelihood of Exposure	500	5
Waste Characteristics:		
15. Toxicity	(a)	10000
16. Hazardous Waste Quantity	(a)	1
17. Waste Characteristics	100	10
Targets:		
18. Nearby Individual	1	1
19. Population Within 1 Mile	(b)	7676
20. Targets (lines 18 + 19)	(b)	8191
Nearby Population Threat Score		
21. Nearby Population Threat (lines 14 x 17 x 20)	(b)	409550
Soil Exposure Pathway Score:		
22. Pathway Score ^d (S_p), [(lines (11+21)/82,500, subject to max of 100)]	100	7.3

^a Maximum value applies to waste characteristics category

^b Maximum value not applicable

^c No specific maximum value applies to factor. However, pathway score based solely on terrestrial sensitive environments is limited to a maximum of 60

^d Do not round to nearest integer

TABLE 6-1 --AIR MIGRATION PATHWAY SCORESHEET

Factor categories and factors	Maximum Value	Value Assigned
Likelihood of Release:		
1. Observed Release	550	0
2. Potential to Release:		
2a. Gas Potential to Release	500	
2b. Particulate Potential to Release	500	
2c. Potential to Release (higher of lines 2a and 2b)	500	
3. Likelihood of Release (higher of lines 1 and 2c)	550	0
Waste Characteristics:		
4. Toxicity/Mobility	(a)	
5. Hazardous Waste Quantity	(a)	
6. Waste Characteristics	100	
Targets:		
7. Nearest Individual	50	
8. Population:		
8a. Level I Concentrations	(b)	
8b. Level II Concentrations	(b)	
8c. Potential Contamination	(c)	
8d. Population (lines 8a + 8b + 8c)	(b)	
9. Resources	5	
10. Sensitive Environments:		
10a. Actual Contamination	(c)	
10b. Potential Contamination	(c)	
10c. Sensitive Environments (lines 10a + 10b)	(c)	
11. Targets (lines 7 + 8d + 9 + 10c)	(b)	
Air Migration Pathway Score:		
12. Pathway Score (S_a) $[(\text{lines } 3 \times 6 \times 11)/82,500]^d$	100	0

^a Maximum value applies to waste characteristics category

^b Maximum value not applicable

^c No specific maximum value applies to factor. However, pathway score based solely on sensitive environments is limited to a maximum of 60.

^d Do not round to nearest integer

APPENDIX B

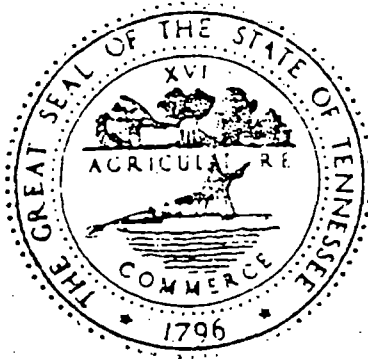
References

REFERENCES

1. *Site Inspection Report for the Hooker Road Bridge Dump, TN980844229*, State of Tennessee, Department of Environment and Conservation, Division of Superfund, February 24, 1988.
2. *Hooker Road Bridge Dump Field Notes*, State of Tennessee, Department of Environment and Conservation, Division of Remediation, Site Number 33-590. February 3, 2006.
3. *Remedial Investigation Report for the Tennessee Products Site, Chattanooga, TN*. CDM Federal Programs Corporation, March 4, 1999.
4. *Records of Water Wells on the Chattanooga Quadrangle 0105SE TN*, State of Tennessee, Department of Environment and Conservation, Division of Water Supply, December 5, 2005.
5. US Census Bureau, State and County QuickFacts for Chattanooga, Tennessee. *People QuickFacts - Population, 2000* obtained from <http://quickfacts.census.gov/qfd/states/47/4714000.html>.

Reference 1

Site Inspection Report
Hooker Road Bridge Dump, TN980844229
State of Tennessee, Department of Environment and Conservation
Division of Superfund
February 24, 1988



Potential Hazardous Waste Site

Site Inspection Report

HOOKER ROAD BRIDGE DUMP
TND 980844229
Chattanooga, Hamilton County,
Tennessee

Reference 2

Hooker Road Bridge Dump Field Notes
State of Tennessee
Department of Environment and Conservation
Division of Remediation
Site Number 33-590
February 3, 2006.

33-590 Hooker Road Dump

(21)

2/3/06

1420 - DOR ON SITE - J. BARRETT, J. KOTTA

DOR TALKING WITH CURRENT
BUSINESS OPERATOR.

CURRENT (JEBBIS)

ORABOZZE - OWNER - WILGIB'S DAUGHTER

DENNIS GOINS - CURRENT LESSEE

DVD AUTO 595-1132

SITE IS CURRENTLY BEING USED
AS AN AUTO SALVAGE YARD.

D+D SALVAGE. DENNIS GOINS
STATED THEY HAVE BEEN IN
OPERATION FOR ~ 6 MONTHS.

FILLED UPPER (NORTHEASTERN)

PORTION OF THE SITE IS

CLEAR OF VEGETATION

AND HAS CARS ON IT.

POOLS OF WATER WITH SHOWN.

BACK OF PROPERTY GOES

DOWN IN ELEVATION. THE

2/3/06
CONT → PG 82

(22) 33590 HOOKER ROAD DUMP

2/3/06

SLOPE IS OLD TIRES &
CAR PARTS JUST AS IT
WAS IN 1986

PHOTO 1 - VIEW OF TIRES & DEBRIS.
BY J. BARRETT.

CARPET BACKING PILES
STILL ON SITE.

PHOTO 2 - VIEW OF CARPET BACKING.
BY J. BARRETT

PHOTO 3 - VIEW OF OLD DRUMS THAT
ARE IN SAME LOCATION &
CONDITION AS SI. BY J. BARRETT

PHOTO 4 - BLACK ORGANIC MATERIAL
FOUND NEAR OLD DRUMS.
BY J. BARRETT (BURNED CARPET?)
THE SITE APPEARS TO BE
IN THE SAME CONDITION
AS IT WAS DESCRIBED IN
THE SI.

1530 DEPART SITE

2/3/06
JCB

Site Name: Hooker Road Dump
Location: Chattanooga, Tennessee
DOR Personnel Present: J. Barrett, T. Keith

Site No. 33-590
Date: 2-03-06
Document Prepared By: J. Barrett *1603*



Photo 1. View of tires and debris. Photo taken by J. Barrett.

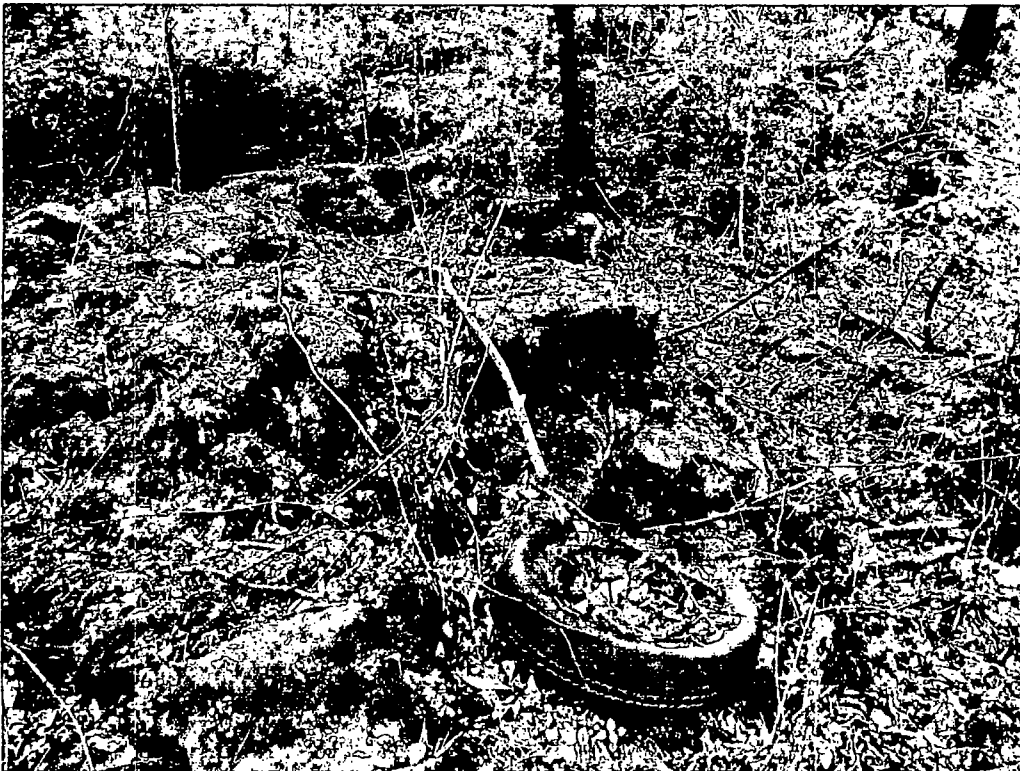


Photo 2. View of view of carpet backing. Photo taken by J. Barrett.

Site Name: Hooker Road Dump
Location: Chattanooga, Tennessee
DOR Personnel Present: J. Barrett, T. Keith

Site No. 33-590
Date: 2-03-06
Document Prepared By: J. Barrett

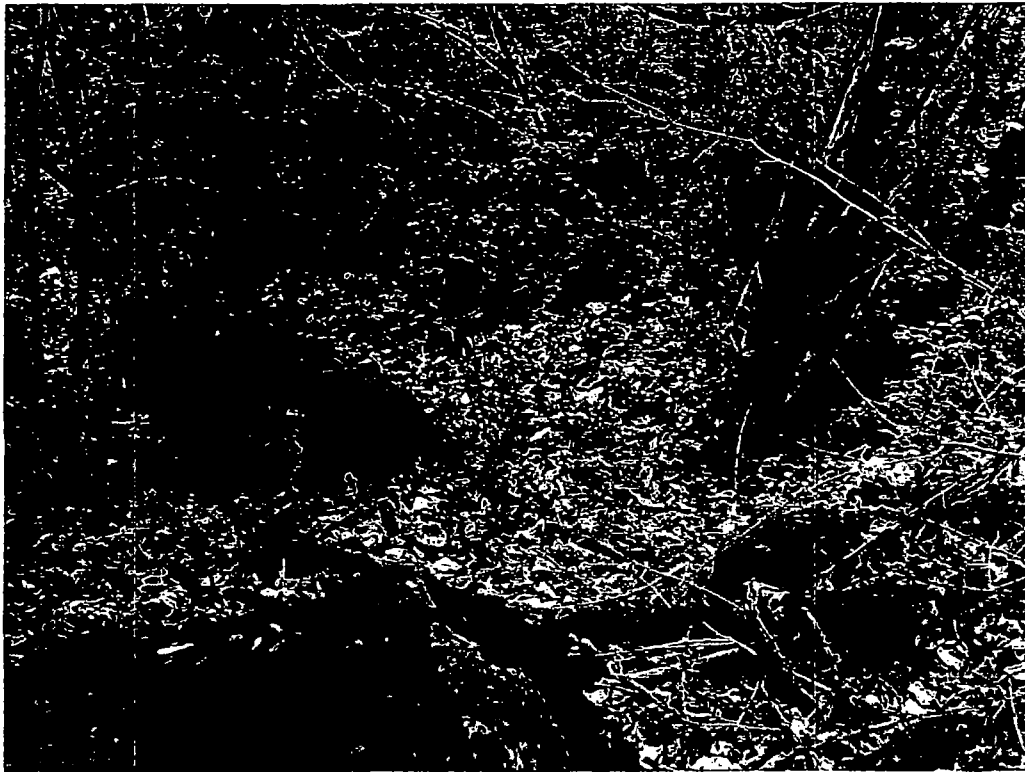


Photo 3. View of old drums that are in the same location and condition as described in the SI.
Photo taken by J. Barrett.

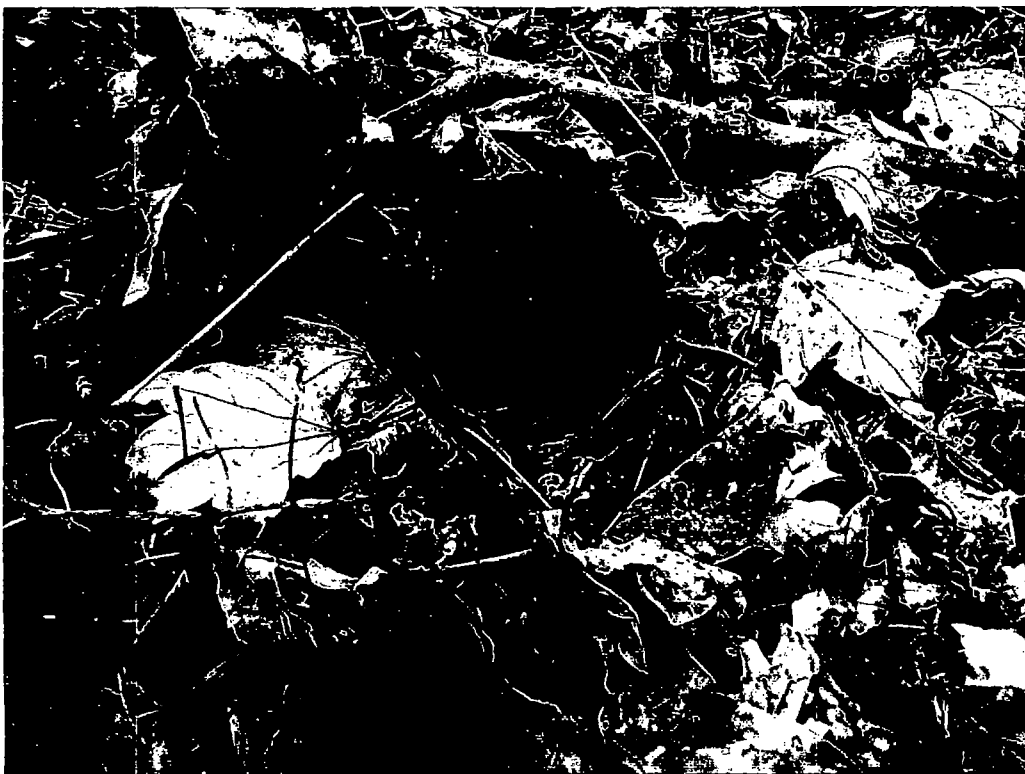


Photo 4. View of black organic material found near old drums. Photo taken by J. Barrett.

Reference 3

Remedial Investigation Report for the Tennessee Products Site
Chattanooga, TN
CDM Federal Programs Corporation
March 4, 1999

**REMEDIAL PLANNING ACTIVITIES AT SELECTED
UNCONTROLLED HAZARDOUS SUBSTANCES DISPOSAL
SITES FOR EPA REGION IV**

U.S. EPA CONTRACT NO. 68-W9-0056

WORK ASSIGNMENT NO.: 64-4LBV

**REMEDIAL INVESTIGATION REPORT
FOR THE
TENNESSEE PRODUCTS SITE
CHATTANOOGA, TENNESSEE**

VOLUME I

DOCUMENT CONTROL NO.: 7740-064-RT-BTWP

MARCH 4, 1999

**Prepared for:
U.S. Environmental Protection Agency**

**Prepared By:
CDM Federal Programs Corporation
2030 Powers Ferry Road, Suite 490
Atlanta, Georgia 30339**

Reference 4

Records of Water Wells on the Chattanooga Quadrangle 0105SE TN
State of Tennessee, Department of Environment and Conservation
Division of Water Supply
December 5, 2005

TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION - DIVISION OF WATER SUPPLY

RECORDS OF WATER WELLS ON THE CHATTANOOGA QUADRANGLE 0105SE TN

QUAD / NTH COUNTY	WELL NUM REG NUM	OWNER'S NAME LOCATION ROAD	COMP DATE INSP DATE	TOT DEPTH AQ DEPTH	TOT YIELD STAT LEVEL	CSE DEPTH CSE TYPE	WELL FINISH INTERVAL	WAT QUAL INSP NUMBER	LATITUDE LONGITUDE	A / C LOG	DRILLER USE
0105SE HAMILTON	1 06501147	GUEST, BILL SUTT CREEK	05/03/1985	85 70	20	68 Steel	Slotted 64 - 85		350500 852000		572 No Residential
0105SE HAMILTON	1 06501215	MALONE, JIM HIDDEN BROOK DR	11/13/1985	512 69	10 50	21 Steel	Open Hole 21 - 512		350500 852000		84 No Residential
0105SE HAMILTON	1 06501242	HEYWOOD I, BARRETT H FALMOUTH	05/20/1986	428 323	20 200	230 Steel	Open Hole 230 - 428		350500 852000		84 No Heat Pump
0105SE HAMILTON	1 06501463	LAMONS, DANNY RIVER CANYON	09/27/1987	105 105	20 10	52 Steel	Open Hole 52 - 105		350500 852000		84 No Residential
0105SE HAMILTON	1 20005461 D0016033	GARRETT, BOB 1917 HWY 27	02/17/2000 10/26/2000	400 352	15	135 Steel	Open Hole 135 - 400	030084	350642 852147	S Yes	665 Residential
0105SE HAMILTON	1 20011425 D0052819	MILLS, THOM HWY 27	04/03/2001	95 78	2.5 40	37 Steel	Open Hole 37 - 95	Clear			572 Yes Residential
0105SE HAMILTON	1 20033742 D0062572	UTC BIOLOGY DEPT. CASH CANYON RD.	11/28/2003	310 303	50 118	63 Steel	Open Hole 63 - 310	Clear			571 Yes Other
0105SE HAMILTON	1 91003165	REDMOND, DORTHY HWY 27	08/27/1991	172 65	100 39	47 Steel	Open Hole 47 - 172	Sulphur			571 No Residential
0105SE HAMILTON	1 92003531	REECE, BOB HWY 27	09/29/1992	64 45	50 20	41 Steel	Slotted 42 - 60				68 No Residential
0105SE HAMILTON	1 92003532	PARSON, WALTER HWY 27	09/29/1992	64 45	25 25	52 Steel	Open Hole 52 - 64				68 No Residential
0105SE HAMILTON	1 93003393	PARKER, DWIGHT HWY 27	07/27/1993	162 25	10 25	30 Steel	Open Hole 30 - 162	Good			571 No Residential
0105SE HAMILTON	1 95003312 D0011747	FRANKLIN, HENRY SUCK CREEK	07/06/1995	142 122	35 15	53 Steel	Open Hole 53 - 142	Sulphur			571 No Residential
0105SE HAMILTON	1 95005038	MORRIS JR, REX MILL CREEK	10/17/1995	350 290	4						572 No Other

TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION - DIVISION OF WATER SUPPLY

RECORDS OF WATER WELLS ON THE CHATTANOOGA QUADRANGLE 0105SE TN

QUAD / NTH COUNTY	WELL NUM REG NUM	OWNER'S NAME LOCATION ROAD	COMP DATE INSP DATE	TOT DEPTH AQ DEPTH	TOT YIELD STAT LEVEL	CSE DEPTH CSE TYPE	WELL FINISH INTERVAL	WAT QUAL INSP NUMBER	LATITUDE LONGITUDE	A / C LOG	DRILLER USE
0105SE HAMILTON	1 D0018132	JONES, KATE HIGHDOWN COURT	04/22/1996	165 70	10 50	60 Steel	Open Hole 60 - 165				6 Irrigation
0105SE HAMILTON	1 D0021676	GARRETT, BOB HWY 27	04/11/1997	260 120	10 182	155 Steel	Open Hole 155 - 260	Good			571 Residential
0105SE HAMILTON	1 D0026101	GARRETT, ROBERT N 1917 SUCKCREEK	03/13/1998	100 90		83 Steel	Open Hole 83 - 90				712 Residential
0105SE HAMILTON	1 D0028542	DONAHUE, GLEN RIVER CANYON	12/01/1998	100 83	38 20	83 Steel	Slotted 79 - 100				572 Residential
0105SE HAMILTON	1 D0016016	TOWNSON, JEFF 435 ISBILL RD	02/04/1999	252 170	100 30	70 Steel	Open Hole 70 - 252				665 Residential
0105SE HAMILTON	2 D06501518	LINDSEY, ROBERT B LINDCREST CIRCL	09/24/1988	253 235	10 174	234 Steel	Slotted 234 - 253	Good	350500 851730		571 Residential
0105SE HAMILTON	2 D06501613	TRIPLETT, TERRY W ROAD	07/12/1989	600 545	20 405	209 Steel	Open Hole 209 - 600	Good	350500 851730		571 Residential
0105SE HAMILTON	2 D0004410 D0043178	FISHER, BEN 4601 W RD	01/03/2000	655 328	8 420	168 Steel	Open Hole 188 - 655	Clear			572 Residential
0105SE HAMILTON	2 D091003307	SWAFFORD, JACK READ LAKE	08/24/1991	275 135	6 40	114 Steel	Open Hole 114 - 275				84 Residential
0105SE HAMILTON	2 D098004033 D0032747	BROTHERS, ALEXIAN MOUNTAIN CREEK	09/12/1998 11/30/1998	300 75	11 35	41 Steel	Open Hole 41 - 300	022496	350700 851855	T No	68 Irrigation
0105SE HAMILTON	3 D091000977	ALCO CHEMICAL MUELER AVENUE	10/04/1989	616 123	500 81	40 Steel	Open Hole -	Unknown			748 Industrial
0105SE HAMILTON	3 D093001607	N A INDUSTRIES INC IN RIVERPORT IN	04/12/1993	210	100	164 Steel	Open Hole 164 - 210				748 Industrial
0105SE HAMILTON	3 D093001608	N A INDUSTRIES INC RIVERPORT IND P	03/29/1993	600 118	1000	180 Steel	Open Hole 180 - 600	Unknown			748 Industrial

TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION - DIVISION OF WATER SUPPLY

RECORDS OF WATER WELLS ON THE CHATTANOOGA QUADRANGLE 0105SE TN

QUAD / NTH COUNTY	WELL NUM REG NUM	OWNER'S NAME LOCATION ROAD	COMP DATE INSP DATE	TOT DEPTH AQ DEPTH	TOT YIELD STAT LEVEL	CSE DEPTH CSE TYPE	WELL FINISH INTERVAL	WAT QUAL INSP NUMBER	LATITUDE LONGITUDE	A / C LOG	DRILLER USE
0105SE HAMILTON	3 93001609	NA INDUSTRIES INC RIVERPORT IND P	04/23/1993	800 173	1500	189 Steel	Slotted 189 - 800				748 No Industrial
0105SE HAMILTON	3 94000122 D0007226	COCA COLA BOTTLING AMNICOLA HIGHWA	12/16/1993	700 545	100 7283	44 Plastic	Unknown 44 - 700				665 No Commercial
0105SE HAMILTON	3 94000329 D0007226	COCA-COLA BOTTLING AMNICOLA HIGHWA	01/21/1994	700 545	200 72	95 Steel	Open Hole 95 - 560	Unknown			665 No Industrial
0105SE HAMILTON	3 94000336 D0007228	N A INDUSTRIES, INC IN RIVERPORT IN	08/25/1993	200	2000	40 Steel	Open Hole 40 - 200	Good			665 No Industrial
0105SE HAMILTON	3 99001213 D0037465	CASE, JOEL GADD RD	03/04/1999	228 65	5 42	91 Steel	Open Hole 91 - 228				572 No Residential
0105SE MARION	4 20003751 D0048901	MCLAUGHLIN, HAROLD ELDER MTN RD	07/17/2000	302 115	6 90	41 Steel	Open Hole 41 - 302	Clear			571 Yes Irrigation
0105SE MARION	4 20003764 D0048906	MCLAUGHLIN, HAROLD ELDER MTN RD	07/12/2000	222 72	3 70	58 Steel	Open Hole 58 - 222	Clear			571 Yes Irrigation
* 0105SE HAMILTON	4 20021969 D0058235	FIXSON, DAVID 1880 CASH CANYON RD	06/24/2002	208 138	9 100	125 Steel	Open Hole 156 - 208	Clear			572 Yes Residential
* 0105SE HAMILTON	4 20040823 D0064911	ROSSELL JR., RICHARD 1750 CASH CANYON RD	03/18/2004 04/18/2005	180 70	2 35	41 Steel	Open Hole 41 - 180	Clear 044801	350416 852122	F Yes	750 Residential
* 0105SE HAMILTON	4 91000886	FROSTER, WILLIAM CASH CANYON RD	01/18/1991	250 220	1 60	158 Steel	Open Hole 158 - 250				84 No Residential
* 0105SE HAMILTON	4 95001796 D0011817	JOHNSON, RANDY CASH CANYON	05/10/1995	290	1 31	38 Steel	Open Hole 38 - 290				68 No Residential
0105SE HAMILTON	4 97002908 D0023747	CITY OF CHATTANOOGA MOCCASIN BEND R	06/20/1997	52 40	60 16	54 Steel	Slotted 32 - 48				6 No Other
* 0105SE HAMILTON	4 98004031 D0032745	JENKINS, STEVE CASH CANYON	09/09/1998	125 108	100 35	105 Steel	Open Hole 105 - 125				68 No Residential

TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION - DIVISION OF WATER SUPPLY

RECORDS OF WATER WELLS ON THE CHATTANOOGA QUADRANGLE 0105SE TN

QUAD / NTH COUNTY	WELL NUM REG NUM	OWNER'S NAME LOCATION ROAD	COMP DATE INSP DATE	TOT DEPTH AQ DEPTH	TOT YIELD STAT LEVEL	CSE DEPTH CSE TYPE	WELL FINISH INTERVAL	WAT QUAL INSP NUMBER	LATITUDE LONGITUDE	A / C LOG	DRILLER USE
0105SE HAMILTON	4 99004379 D0016024	VINCENT, MILTON POLO FIELD 102	07/28/1999	280 90	2	35 Steel	Open Hole 35 - 280				665 No Residential
0105SE HAMILTON	4 99004380 D0016025	VINCENT, MILTON POLO FIELD 102	07/29/1999	250 50	100	21 Steel	Open Hole 21 - 250	Good			665 No Residential
0105SE HAMILTON	4 99005432 D0043326	MASHBURN, PAUL OGRADY DR 818	09/09/1999	242 102	5 20	20 Steel	Open Hole 20 - 242	Unknown			571 No Irrigation
0105SE HAMILTON	5 06500814	TN VALLEY AUTHORITY	07/30/1980	147 70	150	70 Steel	-		350235 851909	S No	748 Test
0105SE HAMILTON	5 06500821	TN VALLEY AUTHORITY	02/23/1979	625 480	1500	60	-	Good	350233 851840	S No	748 Test
0105SE HAMILTON	5 06500822	TN VALLEY AUTHORITY		250 146	10	11	-		350232 851829	S No	748 Test
0105SE HAMILTON	5 06500823	TN VALLEY AUTHORITY		250 133	285 7	33	-		350232 851809	S No	748 Test
0105SE HAMILTON	5 06500824	TN VALLEY AUTHORITY		250 112	1500 11	27 Plastic	-		350235 851811	S No	748 Test
0105SE HAMILTON	5 06500825	TN VALLEY AUTHORITY	03/14/1979	207 149	285 5	35	-		350231 851810	S No	748 Test
0105SE HAMILTON	5 06500843	TN VALLEY AUTHORITY	01/15/1980	75		33 Steel	-		350235 851840	S No	748 Other
0105SE HAMILTON	5 06500844	TN VALLEY AUTHORITY	01/17/1980	74			-		350233 851840	S No	748 Other
0105SE HAMILTON	5 06500845	TN VALLEY AUTHORITY	01/17/1980	74		35 Steel	-		350233 851838	S No	748 Other
0105SE HAMILTON	5 06500846	TN VALLEY AUTHORITY	01/18/1980	74		29 Steel	-		350238 851840	S No	748 Other

TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION - DIVISION OF WATER SUPPLY

RECORDS OF WATER WELLS ON THE CHATTANOOGA QUADRANGLE 0105SE TN

QUAD / NTH COUNTY	WELL NUM REG NUM	OWNER'S NAME LOCATION ROAD	COMP DATE INSP DATE	TOT DEPTH AQ DEPTH	TOT YIELD STAT LEVEL	CSE DEPTH CSE TYPE	WELL FINISH INTERVAL	WAT QUAL INSP NUMBER	LATITUDE LONGITUDE	A / C LOG	DRILLER USE
0105SE HAMILTON	7 06501186	CAMPBELL, RAY MAYDALE	08/26/1985	572 158	4 140	160 Steel	Open Hole 160 - 572		350000 852000		572 No Residential
0105SE HAMILTON	7 06501243	GOINS, BENNY CAROLYN LANE		571 400	1 225	265 Steel	Open Hole 265 - 571		350000 852000		84 No Residential
0105SE HAMILTON	7 06501244	MALONE, JIM WATAUGA	04/30/1986	230 210		42 Steel	Open Hole 42 - 230		350000 852000		84 No Heat Pump
0105SE HAMILTON	7 06501391	NABORS, ROBERT E HOLTSCRAW	02/17/1987	343 343	100 20	42 Steel	Open Hole 42 - 343		350000 852000		84 No Residential
0105SE HAMILTON	7 20001517 D0016034	REFLECTION RIDING 400 GARDEN RD	03/20/2000 03/24/2001	225 50		168 Steel	Open Hole 168 - 225	Cloudy 030174	350027 852154	F Yes	665 Irrigation
0105SE HAMILTON	7 96001175 D0014394	NURSERY BROKERS MT VIEW DR 3206	03/05/1996 05/16/1996	185 45	5 30	21 Steel	Open Hole 21 - 185	016677	350140 852152	F No	6 Residential
0105SE HAMILTON	8 06500732	ELEVENTH ST DEUP CO	05/08/1979 06/23/1983	180 177	170	14 Steel			350219 851808	F No	748
0105SE HAMILTON	8 06500815	TN VALLEY AUTHORITY	07/25/1980	147 113	50	75 Steel			350151 851914	S No	748 Test
0105SE HAMILTON	8 06500816	TN VALLEY AUTHORITY	08/08/1980	147 108	217	80 Steel		Good	350202 851916	S No	748 Test
0105SE HAMILTON	8 06500817	TN VALLEY AUTHORITY	08/18/1980	168 108	500	79 Steel			350222 851918	S No	748 Test
0105SE HAMILTON	8 06500818	TN VALLEY AUTHORITY	08/18/1980	147 100	5	42 Steel			350208 851856	S No	748 Test
0105SE HAMILTON	8 06500819	TN VALLEY AUTHORITY	08/21/1980	147 86	500	84 Steel			350216 851917	S No	748 Test
0105SE HAMILTON	8 06500820	TN VALLEY AUTHORITY W 19TH STREET	08/29/1980	147 54	500	46 Steel	Open Hole 46 - 147		350222 851936	S No	748 Test

TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION - DIVISION OF WATER SUPPLY

RECORDS OF WATER WELLS ON THE CHATTANOOGA QUADRANGLE 0105SE TN

QUAD / NTH COUNTY	WELL NUM REG NUM	OWNER'S NAME LOCATION ROAD	COMP DATE INSP DATE	TOT DEPTH AQ DEPTH	TOT YIELD STAT LEVEL	CSE DEPTH CSE TYPE	WELL FINISH INTERVAL	WAT QUAL INSP NUMBER	LATITUDE LONGITUDE	A / C LOG	DRILLER USE
0105SE HAMILTON	8 06500826	TN VALLEY AUTHORITY	04/20/1979	124	1500	32			350220	S	748
				51		Steel	-		851750	No	Test
0105SE HAMILTON	8 06500827	TN VALLEY AUTHORITY	04/11/1979	144	300	91			350214	S	748
				89	30		-		851915	No	Test
0105SE HAMILTON	8 06500828	TN VALLEY AUTHORITY	04/12/1979	207	200	57			350128	S	748
				51	22		-		851815	No	Test
0105SE HAMILTON	8 06500829	TN VALLEY AUTHORITY	04/20/1979	207	400	30			350153	S	748
				38			-		851727	No	Test
0105SE HAMILTON	8 06500830	TN VALLEY AUTHORITY	05/08/1979	180	170				350219	S	748
				177			-		851808	No	Test
0105SE HAMILTON	8 06500831	TN VALLEY AUTHORITY	05/09/1979	207	80				350229	S	748
				71			-		851759	No	Test
0105SE HAMILTON	8 06500832	TN VALLEY AUTHORITY	07/19/1979	148	107	45			350221	S	748
				131		Steel	-		851800	No	Test
0105SE HAMILTON	8 06500833	TN VALLEY AUTHORITY	07/23/1979	148	65	41			350225	S	748
				115		Steel	-		851808	No	Test
0105SE HAMILTON	8 06500834	TN VALLEY AUTHORITY	07/24/1979	73	80	49			350210	S	748
				64		Steel	-		851742	No	Test
0105SE HAMILTON	8 06500835	TN VALLEY AUTHORITY	07/25/1979	198	3	42			350200	S	748
				40	14	Steel	-		851994	No	Test
0105SE HAMILTON	8 06500836	TN VALLEY AUTHORITY	08/01/1979	248	200	81			350222	S	748
				60	24	Steel	-		851857	No	Test
0105SE HAMILTON	8 06500837	TN VALLEY AUTHORITY	08/03/1979	166	200	115			350213	S	748
				60	18	Steel	-		851909	No	Test
0105SE HAMILTON	8 06500838	TN VALLEY AUTHORITY	08/07/1979	153	200	52			350205	S	748
				124	17		-		851907	No	Test

TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION - DIVISION OF WATER SUPPLY

RECORDS OF WATER WELLS ON THE CHATTANOOGA QUADRANGLE 0105SE TN

QUAD / NTH COUNTY	WELL NUM REG NUM	OWNER'S NAME LOCATION ROAD	COMP DATE INSP DATE	TOT DEPTH AQ DEPTH	TOT YIELD STAT LEVEL	CSE DEPTH CSE TYPE	WELL FINISH INTERVAL	WAT QUAL INSP NUMBER	LATITUDE LONGITUDE	A / C LOG	DRILLER USE
0105SE HAMILTON	8 06500839	TN VALLEY AUTHORITY	08/07/1979	148 138	400	88 Plastic	-		350223 851908	S No	748 Test
0105SE HAMILTON	8 06500840	TN VALLEY AUTHORITY	07/23/1980	147 63	500	54 Steel	-		350208 851853	S No	748 Test
0105SE HAMILTON	8 06500842	TN VALLEY AUTHORITY		435		225 Steel	-		350214 851913	S No	740 Other
0105SE HAMILTON	8 06501180	WHEELAM FOUNDY BROAD ST	04/11/1985	61 56		61 Plastic	Slotted 51 - 61		350000 851730		84 Monitor
0105SE HAMILTON	8 20023949	WDEF TV BROAD ST	10/08/2002	60		23 Steel	-				572 No
0105SE HAMILTON	8 97003259 D0016006	SOUTHERN CELLULOSE CENTRAL	01/20/1997	300	100	20 Steel	Open Hole 20 - 300	Sulphur			665 No Commercial
0105SE HAMILTON	9 06500102	JOHNSON TRUCK STOP	10/12/1966	241 200	60 20			Good	350117 851726	S No	84 Commercial
0105SE HAMILTON	9 98001762 D0027705	VETERANS NATIONAL CE CENTRAL AVE	05/27/1998 09/16/1998	202 59	80 12	42 Steel	Open Hole 42 - 202	Good 022500	350200 851732	F No	571 Irrigation

Reference 5

US Census Bureau
State and County QuickFacts for Chattanooga, Tennessee
People QuickFacts - Population, 2000

State & County QuickFacts

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Chattanooga (city), Tennessee

People QuickFacts	Chattanooga	Tennessee
Population, 2003 estimate	154,887	5,841,748
Population, percent change, April 1, 2000 to July 1, 2003	-0.5%	2.7%
Population, 2000	155,554	5,689,283
Population, percent change, 1990 to 2000	1.8%	16.7%
Persons under 5 years old, percent, 2000	6.1%	6.6%
Persons under 18 years old, percent, 2000	22.4%	24.6%
Persons 65 years old and over, percent, 2000	15.2%	12.4%
Female persons, percent, 2000	52.8%	51.3%
White persons, percent, 2000 (a)	59.7%	80.2%
Black or African American persons, percent, 2000 (a)	36.1%	16.4%
American Indian and Alaska Native persons, percent, 2000 (a)	0.3%	0.3%
Asian persons, percent, 2000 (a)	1.5%	1.0%
Native Hawaiian and Other Pacific Islander, percent, 2000 (a)	0.1%	Z
Persons reporting some other race, percent, 2000 (a)	1.0%	1.0%
Persons reporting two or more races, percent, 2000	1.3%	1.1%
Persons of Hispanic or Latino origin, percent, 2000 (b)	2.1%	2.2%
Living in same house in 1995 and 2000', pct age 5+, 2000	52.1%	53.9%
Foreign born persons, percent, 2000	3.4%	2.8%
Language other than English spoken at home, pct age 5+, 2000	5.6%	4.8%
High school graduates, percent of persons age 25+, 2000	77.6%	75.9%
Bachelor's degree or higher, pct of persons age 25+, 2000	21.5%	19.6%
Mean travel time to work (minutes), workers age 16+, 2000	19.8	24.5
Housing units, 2000	72,108	2,439,443
Homeownership rate, 2000	54.9%	69.9%
Median value of owner-occupied housing units, 2000	\$83,500	\$93,000
Households, 2000	65,499	2,232,905
Persons per household, 2000	2.29	2.48
Median household income, 1999	\$32,006	\$36,360

Per capita money income, 1999	\$19,689	\$19,393
Persons below poverty, percent, 1999	17.9%	13.5%
Business QuickFacts	Chattanooga	Tennessee
Manufacturers shipments, 1997 (\$1000)	4,091,403	98,503,080
Wholesale trade sales, 1997 (\$1000)	3,688,758	82,626,370
Retail sales, 1997 (\$1000)	2,707,050	50,813,221
Retail sales per capita, 1997	\$18,115	\$9,448
Accommodation and foodservices sales, 1997 (\$1000)	366,660	6,790,159
Total number of firms, 1997	13,958	415,934
Minority-owned firms, percent of total, 1997	9.2%	7.8%
Women-owned firms, percent of total, 1997	22.1%	24.0%
Geography QuickFacts	Chattanooga	Tennessee
Land area, 2000 (square miles)	135	41,217
Persons per square mile, 2000	1,150.5	138.0
FIPS Code	14000	47
Counties	Hamilton County Marion County	

(a) Includes persons reporting only one race.

(b) Hispanics may be of any race, so also are included in applicable race categories.

FN: Footnote on this item for this area in place of data

NA: Not available

D: Suppressed to avoid disclosure of confidential information

X: Not applicable

S: Suppressed; does not meet publication standards

Z: Value greater than zero but less than half unit of measure shown

F: Fewer than 100 firms

Source U.S. Census Bureau: State and County QuickFacts. Data derived from Population Estimates, 2000 Census of Population and Housing, 1990 Census of Population and Housing, Small Area Income and Poverty Estimates, County Business Patterns, 1997 Economic Census, Minority- and

Women-Owned Business, Building Permits, Consolidated Federal Funds Report, 1997 Census of Governments

Last Revised: Wednesday, 16-Nov-2005 10:07:54 EST

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